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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,522	10/07/2005	Kengo Shibuya	TIP 042	2382
25.00	7590 08/01/2007	EXAMINER		
GARY C. COHN, PLLC 1147 NORTH FOURTH STREET UNIT 6E PHILADELPHIA, PA 19123			HO, ANTHONY	
			ART UNIT	PAPER NUMBER
PHILADELPH	IA, FA 19123		2815	
				DEL HICRY MODE
•			MAIL DATE	DELIVERY MODE
			08/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/552,522	SHIBUYA ET AL.				
		Examiner	Art Unit				
		Anthony Ho	2815				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 🔀	Responsive to communication(s) filed on 05 Ju	Ilv 2007.					
	•	action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims		•				
4) 🛛	Claim(s) 1-11 is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1-11</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) 🔲	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9) 🗀 '	The specification is objected to by the Examine	r. ·	·				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)	•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application							
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	6) Other:	atom Application				
C Dotast and T	- James I. Office		·				

DETAILED ACTION

This is in response to amendment to application no. 10/552,522 filed on July 5, 2007. Claims 1-11 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Nishimura (JP 2000-249768) in view of Hamamatsu Microchannel Plate-Photo Multiplier

Tube R5916U-50 Series product literature.

Nishimura discloses a radiation detection device comprising a CsBr crystal, that has a CsCl type crystal structure and the Cs:Br atom ratio is about 1:1, as a scintillator and a photoelectron multiplier tube for receiving a light from the scintillator (entire document). Nishimura does not teach a photomultiplier tube built into a MCP.

However, Hamamatsu Microchannel Plate-Photo Multiplier Tube R5916U-50 Series product literature teaches the photoelectron multiplier tube is a MCP built-in photoelectron multiplier tube (entire document).

The advantage is to obtain high speed gating with low supply voltage (entire document).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the radiation detection device comprising a CaBr crystal, that has a CaCl type crystal structure and the Cs:Br atom ratio is about 1:1, as a scintillator and a photoelectron multiplier tube for receiving a light from the scintillator as taught by Nishimura with the photoelectron multiplier tube is a MCP built-in photoelectron multiplier tube as taught by Hamamatsu Microchannel Plate-Photo Multiplier Tube R5916U-50 Series product literature in order to obtain high speed gating with low supply voltage.

Response to Arguments

Applicant's arguments filed July 5, 2007 have been fully considered but they are not persuasive.

In response to applicant's argument that Nishimura does not disclose a CsBr crystal, examiner asserts that Nishimura discloses a radiation detection device comprising CsBr as a scintillator.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a pure CsBr crystal) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Ho whose telephone number is 571-270-1432. The examiner can normally be reached on M-Th: 8:30AM-7:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2815

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AH July 24, 2007

> JEROME JACKSON PRIMARY EXAMINER